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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/026,188

DATE: 07/15/2002
TIME: 13:55:39

Input Set : A:\Ucl149-1.app
Output Set: N:\CRF3\07152002\J026188.raw

4 <110> APPLICANT: Zuker, Charles S.
 5 Zhang, Yifeng
 6 The Regents of the University of California
 8 <120> TITLE OF INVENTION: Assays for Taste Receptor Cell Specific
 9 Ion Channel
 11 <130> FILE REFERENCE: 02307E-114910US
 13 <140> CURRENT APPLICATION NUMBER: US 10/026,188
 14 <141> CURRENT FILING DATE: 2001-12-21
 16 <150> PRIOR APPLICATION NUMBER: US 60/259,379
 17 <151> PRIOR FILING DATE: 2000-12-29
 19 <160> NUMBER OF SEQ ID NOS: 8
 21 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 4185
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Rattus sp.
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: rat L-TRP taste cDNA
 31 <400> SEQUENCE: 1
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 34 tgggagccag tcctatgcaa gggagaggtc aacttcggag ggtctgggaa aaagcgaagc 180
 35 aagtttgtga aggtgccaag caatgtggcc ccctccatgc tctttaact cctgctcacc 240
 36 gagttggcacc tgccagcccc caacctggtg gtgtccctgg tggcggagga acggcttttt 300
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 38 acaggtgcct ggatcctgac cagtgcctc catgtgggccc tggcacgcac tggacac 420
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 40 atggcctctc tggaccgaat ctttcaccgc caacttcttag atgggtgtcca ggaggatact 540
 41 cccatccact acccagcaga tgagggcagc actcaggagc ccctctgccc tctggacagc 600
 42 aatctctccc acttcattct cgtggagcca ggcacccttg ggagtgggaa cgacggactg 660
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 44 accagcagca tccagatacc tgccttttc ttgcttagca atgggtgtcca cagcacccta 780
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65	gccacaggca	cacccatctt	acgacttctg	ggtgccttca	cctgcccagc	cctcatctac	2040
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106 <213> ORGANISM: Rattus sp.
108 <220> FEATURE:
109 <223> OTHER INFORMATION: rat L-TRP taste predicted protein
111 <400> SEQUENCE: 2
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116 Lys Gly Glu Val Asn Phe Gly Gly Ser Gly Lys Lys Arg Ser Lys Phe
117 35 40 45
118 Val Lys Val Pro Ser Asn Val Ala Pro Ser Met Leu Phe Glu Leu Leu
119 50 55 60
120 Leu Thr Glu Trp His Leu Pro Ala Pro Asn Leu Val Val Ser Leu Val
121 65 70 75 80
122 Gly Glu Glu Arg Leu Phe Ala Met Lys Ser Trp Leu Arg Asp Val Leu
123 85 90 95
124 Arg Lys Gly Leu Val Lys Ala Ala Gln Ser Thr Gly Ala Trp Ile Leu
125 100 105 110
126 Thr Ser Ala Leu His Val Gly Leu Ala Arg His Val Gly Gln Ala Val
127 115 120 125
128 Arg Asp His Ser Leu Ala Ser Thr Ser Thr Lys Val Arg Val Val Ala
129 130 135 140
130 Ile Gly Met Ala Ser Leu Asp Arg Ile Leu His Arg Gln Leu Leu Asp
131 145 150 155 160
132 Gly Val Gln Glu Asp Thr Pro Ile His Tyr Pro Ala Asp Glu Gly Ser
133 165 170 175
134 Thr Gln Gly Pro Leu Cys Pro Leu Asp Ser Asn Leu Ser His Phe Ile
135 180 185 190
136 Leu Val Glu Pro Gly Thr Leu Gly Ser Gly Asn Asp Gly Leu Ala Glu
137 195 200 205
138 Leu Gln Leu Ser Leu Glu Lys Ile Ser Gln Gln Arg Thr Gly Tyr
139 210 215 220
140 Gly Gly Thr Ser Ser Ile Gln Ile Pro Val Leu Cys Leu Leu Val Asn
141 225 230 235 240
142 Gly Asp Pro Ser Thr Leu Glu Arg Met Ser Arg Ala Val Glu Gln Ala
143 245 250 255
144 Ala Pro Trp Leu Ile Leu Ala Gly Ser Gly Gly Ile Ala Asp Val Leu
145 260 265 270
146 Ala Ala Leu Val Gly Gln Pro His Leu Leu Val Pro Gln Val Thr Glu
147 275 280 285
148 Lys Gln Phe Arg Glu Lys Phe Pro Ser Glu Cys Phe Ser Trp Glu Ala
149 290 295 300
150 Ile Val His Trp Thr Glu Leu Leu Gln Asn Ile Ala Ala His Pro His
151 305 310 315 320
152 Leu Leu Thr Val Tyr Asp Phe Glu Gln Glu Gly Ser Glu Asp Leu Asp
153 325 330 335
154 Thr Val Ile Leu Lys Ala Leu Val Lys Ala Cys Lys Ser His Ser Arg
155 340 345 350
156 Asp Ala Gln Asp Tyr Leu Asp Glu Leu Lys Leu Ala Val Ala Trp Asp

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157 355 360 365
158 Arg Val Asp Ile Ala Lys Ser Glu Ile Phe Asn Gly Asp Val Glu Trp
159 370 375 380
160 Lys Ser Cys Asp Leu Glu Glu Val Met Thr Asp Ala Leu Val Ser Asn
161 385 390 395 400
162 Lys Pro Asp Phe Val Arg Leu Phe Val Asp Ser Gly Ala Asp Met Ala
163 405 410 415
164 Glu Phe Leu Thr Tyr Gly Arg Leu Gln Gln Leu Tyr His Ser Val Ser
165 420 425 430
166 Pro Lys Ser Leu Leu Phe Glu Leu Leu Glu Arg Lys His Glu Glu Gly
167 435 440 445
168 Arg Leu Thr Leu Ala Gly Leu Gly Ala Gln Gln Thr Arg Lys Leu Pro
169 450 455 460
170 Val Gly Leu Pro Ala Phe Ser Leu His Glu Val Ser Arg Val Leu Lys
171 465 470 475 480
172 Asp Phe Leu His Asp Ala Cys Arg Gly Phe Tyr Gln Asp Gly Arg Arg
173 485 490 495
174 Met Glu Lys Arg Gly Pro Pro Lys Arg Pro Ala Gly Gln Lys Trp Leu
175 500 505 510
176 Pro Asp Leu Ser Arg Lys Ser Glu Asp Pro Trp Arg Asp Leu Phe Leu
177 515 520 525
178 Trp Ala Val Leu Gln Asn Arg Tyr Glu Met Ala Thr Tyr Phe Trp Ala
179 530 535 540
180 Met Gly Arg Glu Gly Val Ala Ala Ala Leu Ala Ala Cys Lys Ile Ile
181 545 550 555 560
182 Lys Glu Met Ser His Leu Glu Lys Glu Ala Glu Val Ala Arg Thr Met
183 565 570 575
184 Arg Glu Ala Lys Tyr Glu Gln Leu Ala Leu Asp Leu Phe Ser Glu Cys
185 580 585 590
186 Tyr Ser Asn Ser Glu Asp Arg Ala Phe Ala Leu Leu Val Arg Arg Asn
187 595 600 605
188 His Ser Trp Ser Arg Thr Thr Cys Leu His Leu Ala Thr Glu Ala Asp
189 610 615 620
190 Ala Lys Ala Phe Phe Ala His Asp Gly Val Gln Ala Phe Leu Thr Lys
191 625 630 635 640
192 Ile Trp Trp Gly Asp Met Ala Thr Gly Thr Pro Ile Leu Arg Leu Leu
193 645 650 655
194 Gly Ala Phe Thr Cys Pro Ala Leu Ile Tyr Thr Asn Leu Ile Ser Phe
195 660 665 670
196 Ser Glu Asp Ala Pro Gln Arg Met Asp Leu Glu Asp Leu Gln Glu Pro
197 675 680 685
198 Asp Ser Leu Asp Met Glu Lys Ser Phe Leu Cys Ser His Gly Gly Gln
199 690 695 700
200 Leu Glu Lys Leu Thr Glu Ala Pro Arg Ala Pro Gly Asp Leu Gly Pro
201 705 710 715 720
202 Gln Ala Ala Phe Leu Leu Thr Arg Trp Arg Lys Phe Trp Gly Ala Pro
203 725 730 735
204 Val Thr Val Phe Leu Gly Asn Val Val Met Tyr Phe Ala Phe Leu Phe
205 740 745 750

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206 Leu Phe Ser Tyr Val Leu Leu Val Asp Phe Arg Pro Pro Pro Gln Gly
207 755 760 765
208 Pro Ser Gly Ser Glu Val Thr Leu Tyr Phe Trp Val Phe Thr Leu Val
209 770 775 780
210 Leu Glu Glu Ile Arg Gln Gly Phe Phe Thr Asn Glu Asp Thr Arg Leu
211 785 790 795 800
212 Val Lys Lys Phe Thr Leu Tyr Val Glu Asp Asn Trp Asn Lys Cys Asp
213 805 810 815
214 Met Val Ala Ile Phe Leu Phe Ile Val Gly Val Thr Cys Arg Met Val
215 820 825 830
216 Pro Ser Val Phe Glu Ala Gly Arg Thr Val Leu Ala Ile Asp Phe Met
217 835 840 845
218 Val Phe Thr Leu Arg Leu Ile His Ile Phe Ala Ile His Lys Gln Leu
219 850 855 860
220 Gly Pro Lys Ile Ile Ile Val Glu Arg Met Met Lys Asp Val Phe Phe
221 865 870 875 880
222 Phe Leu Phe Phe Leu Ser Val Trp Leu Val Ala Tyr Gly Val Thr Thr
223 885 890 895
224 Gln Ala Leu Leu Asp Pro His Asp Gly Arg Leu Glu Trp Ile Phe Arg
225 900 905 910
226 Arg Val Leu Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro Leu
227 915 920 925
228 Asp Glu Ile Asp Glu Ala Arg Val Asn Cys Ser Leu His Pro Leu Leu
229 930 935 940
230 Leu Asp Ser Ser Ala Ser Cys Pro Asn Leu Tyr Ala Asn Trp Leu Val
231 945 950 955 960
232 Ile Leu Leu Leu Val Thr Phe Leu Leu Val Thr Asn Val Leu Leu Met
233 965 970 975
234 Asn Leu Leu Ile Ala Met Phe Ser Tyr Thr Phe Gln Val Val Gln Gly
235 980 985 990
236 Asn Ala Asp Met Phe Trp Lys Phe Gln Arg Tyr His Leu Ile Val Glu
237 995 1000 1005
238 Tyr His Gly Arg Pro Ala Leu Ala Pro Pro Phe Ile Leu Leu Ser His
239 1010 1015 1020
240 Leu Ser Leu Val Leu Lys Gln Val Phe Arg Lys Glu Ala Gln His Lys
241 1025 1030 1035 1040
242 Gln Gln His Leu Glu Arg Asp Leu Pro Asp Pro Val Asp Gln Lys Ile
243 1045 1050 1055
244 Ile Thr Trp Glu Thr Val Gln Lys Glu Asn Phe Leu Ser Thr Met Glu
245 1060 1065 1070
246 Lys Arg Arg Arg Asp Ser Glu Lys Glu Val Leu Arg Lys Thr Ala His
247 1075 1080 1085
248 Arg Val Asp Leu Ile Ala Lys Tyr Ile Gly Gly Leu Arg Glu Gln Glu
249 1090 1095 1100
250 Lys Arg Ile Lys Cys Leu Glu Ser Gln Ala Asn Tyr Cys Met Leu Leu
251 1105 1110 1115 1120
252 Leu Ser Ser Met Thr Asp Thr Leu Ala Pro Gly Gly Thr Tyr Ser Ser
253 1125 1130 1135
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VERIFICATION SUMMARY

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